

Notice of Allowability

Application No.

10/687,463

Examiner

Tuan T. Nguyen

Applicant(s)

CHEN, GUOQING

Art Unit

2824

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Preliminary Amendment filed on 10/15/03.
2. ☒ The allowed claim(s) is/are 11-15, 21-25 and 31-47 *VTN*
3. ☒ The drawings filed on 15 October 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 10/15/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☒ Other Attachment A: Search History.

DETAILED ACTION

1. Claims 1-10, 16-20, 26-30 and 48-53 have been canceled by the Applicant.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 10/15/03 was filed same with the mailing date of the present application. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

3. Claims 11-15, 21-25, 31-47 are allowed.
4. The following is an examiner's statement of reasons for allowance:

The prior art of record fail to disclose a magnetic structure, comprising a conductive layer for conducting a current to generate a magnetic field to partially select the magnetic memory cell structure, the conductive layer formed superjacent the magnetic memory cell structure and the nonconductive layer, the conductive layer adjoining the exposed portion of the multiple layers of the magnetic memory cell structure as recited in claim 11-15.

The prior art of record also fail to disclose a magnetic structure, comprising a conductive line adjacent the magnetic memory cell structure to conduct a current to generate a magnetic field to partially select the magnetic memory cell structure, the conductive line having a first width over the inactive area and a second width over the active area, the magnitude of the second width less than the magnitude of the first width as recited by claims 21-25.

The prior art of record further fail to disclose a computer system, comprising at least one bulk storage device, wherein at least one memory device of the plurality of memory devices is a

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magnetic structure, which comprises: a magnetic memory cell structure having a top and a bottom; and a first conductive means for increasing the flux density to unambiguously select the magnetic memory cell structure for reading and writing of information as recited in claim 31.

The prior art of record also fail to disclose a magnetic memory comprising a current path through which a current conducts, the current path having a first portion and a second portion to provide a magnetic field that couples the memory cell, the first portion of the current path providing a first magnetic field and the second portion of the current path providing a second magnetic field, the sum magnitude of the first and second magnetic fields exceeding the threshold value as recited in claims 32-47.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Nguyen whose telephone number is (571) 272-1880. The examiner can normally be reached on Mon-Thu-Mon-Fri.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 12, 2004



Tuan T. Nguyen
Patent Examiner
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VANTHU NGUYEN
PRIMARY EXAMINER